

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/053,753A
Source: JFWJ6
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IFW16

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/053,753A

DATE: 01/21/2005

TIME: 16:08:51

Input Set : A:\SeqListing05031.3.txt
 Output Set: N:\CRF4\01212005\J053753A.raw

SEQUENCE LISTING

4 (1) GENERAL INFORMATION:

6 (i) APPLICANT: Lau, Lester F.

8 (ii) TITLE OF INVENTION: Extracellular Matrix Signalling Molecules

10 (iii) NUMBER OF SEQUENCES: 21

12 (iv) CORRESPONDENCE ADDRESS:

13 (A) ADDRESSEE: Howrey Simon Arnold & White LLP

14 (B) STREET: 321 North Clark Street, Suite 3400

15 (C) CITY: Chicago

16 (D) STATE: Illinois

17 (E) COUNTRY: United States of America

18 (F) ZIP: 60610

20 (v) COMPUTER READABLE FORM:

21 (A) MEDIUM TYPE: Floppy disk

22 (B) COMPUTER: IBM PC compatible

23 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

24 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

26 (vi) CURRENT APPLICATION DATA:

27 (A) APPLICATION NUMBER: US/10/053,753A

28 (B) FILING DATE: 22-Jan-2002

29 (C) CLASSIFICATION:

31 (viii) ATTORNEY/AGENT INFORMATION:

32 (A) NAME: Clough, David W.

33 (B) REGISTRATION NUMBER: 36,107

34 (C) REFERENCE/DOCKET NUMBER: 05031.0003.CNUS02

36 (ix) TELECOMMUNICATION INFORMATION:

37 (A) TELEPHONE: 312/595-1408

38 (B) TELEFAX: 312/595-2250

39 (C) TELEX:

41 (2) INFORMATION FOR SEQ ID NO: 1:

43 (i) SEQUENCE CHARACTERISTICS:

44 (A) LENGTH: 1480 base pairs

45 (B) TYPE: nucleic acid

46 (C) STRANDEDNESS: single

47 (D) TOPOLOGY: linear

49 (ii) MOLECULE TYPE: protein

51 (ix) FEATURE:

52 (A) NAME/KEY: CDS

53 (B) LOCATION: 180..1316

55 (ix) FEATURE:

56 (A) NAME/KEY: misc_feature

57 (D) OTHER INFORMATION: "Mouse cyr61 cDNA coding sequence"

59 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

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61	CGAGAGCGCC	CCAGAGAACG	GCCTGCAATC	TCTGCCCTC	CTCCGCCAGC	ACCTCGAGAG	60
63	AAGGACACCC	GCCGCCCTCGG	CCCTCGCCTC	ACCGCACTCC	GGGCGCATTT	GATCCCGCTG	120
65	CTCGCCGGCT	TGTTGGTTCT	GTGTCGCCGC	GCTCGCCCCG	GTTCCCTCCTG	CGCGCCACA	179
67	ATG AGC TCC	AGC ACC TTC	AGG ACG CTC	GCT GTC	GCC GTC	ACC CTT CTC	227
68	Met Ser Ser	Ser Thr Phe	Arg Thr Leu	Ala Val	Ala Val	Thr Leu	
69	1	5	10	15			
71	CAC TTG ACC	AGA CTG GCG	CTC TCC ACC	TGC CCC	GCC GCC	TGC CAC TGC	275
72	His Leu Thr	Arg Leu Ala	Leu Ser	Thr Cys	Pro Ala	Ala Cys His	
73	20	25	30				
75	CCT CTG GAG	GCA CCC AAG	TGC GCC CCG	GGA GTC	GGG TTG	GTC CGG GAC	323
76	Pro Leu Glu	Ala Pro Lys	Cys Ala Pro	Gly Val	Gly Leu	Val Arg Asp	
77	35	40	45				
79	GGC TGC GGC	TGC TGT AAG	GTC TGC GCT	AAA CAA CTC	AAC GAG GAC	TGC	371
80	Gly Cys Gly	Cys Lys Val	Cys Ala Lys	Gln Leu	Asn Glu	Asp Cys	
81	50	55	60				
83	AGC AAA ACT	CAG CCC TGC	GAC CAC ACC	AAG GGG	TTG GAA	TGC AAT TTC	419
84	Ser Lys Thr	Gln Pro Cys	Asp His Thr	Lys Gly	Leu Glu	Cys Asn Phe	
85	65	70	75	80			
87	GGC GCC AGC	TCC ACC GCT	CTG AAA GGG	ATC TGC	AGA GCT	CAG TCA GAA	467
88	Gly Ala Ser	Ser Thr Ala	Leu Lys Gly	Ile Cys	Arg Ala	Gln Ser Glu	
89	85	90	95				
91	GGC AGA CCC	TGT GAA TAT	AAC TCC AGA ATC	TAC CAA AAC	GGG GAA	AGC	515
92	Gly Arg Pro	Cys Glu Tyr	Asn Ser Arg	Ile Tyr	Gln Asn	Gly Glu Ser	
93	100	105	110				
95	TTC CAG CCC	AAC TGT AAA	CAC CAG TGC	ACA TGT ATT	GAT GGC	GCC GTG	563
96	Phe Gln Pro	Asn Cys Lys	His Gln Cys	Thr Cys Ile	Asp Gly	Ala Val	
97	115	120	125				
99	GGC TGC ATT	CCT CTG TGT	CCC CAA GAA CTG	TCT CTC CCC	AAT CTG	GGC	611
100	Gly Cys Ile	Pro Leu Cys	Pro Gln	Glu Leu	Ser Leu	Pro Asn Leu	
101	130	135	140				
103	TGT CCC AAC	CCC CGG CTG	GTG AAA GTC	AGC GGG	CAG TGC	TGT GAA GAG	659
104	Cys Pro Asn	Pro Arg Leu	Val Lys	Val Ser	Gly Gln	Cys Cys Glu	
105	145	150	155	160			
107	TGG GTT TGT	GAT GAA GAC	AGC ATT AAG	GAC TCC CTG	GAC GAC	CAG GAT	707
108	Trp Val Cys	Asp Glu Asp	Ser Ile Lys	Asp Ser	Leu Asp	Asp Gln Asp	
109	165	170	175				
111	GAC CTC CTC	GGA CTC GAT	GCC TCG GAG	GTG GAG	TTA ACG	AGA AAC AAT	755
112	Asp Leu Leu	Gly Leu Asp	Ala Ser	Glu Val	Glu Leu	Thr Arg Asn Asn	
113	180	185	190				
115	GAG TTA ATC	GCA ATT GGA	AAA GGC	AGC TCA CTG	AAG AGG	CTT CCT GTC	803
116	Glu Leu Ile	Ala Ile Gly	Lys Gly	Ser Ser	Leu Lys	Arg Leu Pro Val	
117	195	200	205				
119	TTT GGC ACC	GAA CCG CGA	GTT CTT TTC	AAC CCT CTG	CAC GCC	CAT GGC	851
120	Phe Gly Thr	Glu Pro Arg	Val Leu	Phe Asn	Pro Leu	His Ala His	
121	210	215	220				
123	CAG AAA TGC	ATC GTT CAG	ACC ACG TCT	TGG TCC	CAG TGC	TCC AAG AGC	899
124	Gln Lys Cys	Ile Val Gln	Thr Thr Ser	Trp Ser	Gln Cys	Ser Lys Ser	
125	225	230	235	240			
127	TGC GGA ACT	GGC ATC TCC	ACA CGA GTT	ACC AAT	GAC AAC	CCA GAG TGC	947

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128	Cys	Gly	Thr	Gly	Ile	Ser	Thr	Arg	Val	Thr	Asn	Asp	Asn	Pro	Glu	Cys
129					245				250						255	
131	CGC	CTG	GTG	AAA	GAG	ACC	CGG	ATC	TGT	GAA	GTG	CGT	CCT	TGT	GGA	CAA
132	Arg	Leu	Val	Lys	Glu	Thr	Arg	Ile	Cys	Glu	Val	Arg	Pro	Cys	Gly	Gln
133								260		265					270	
135	CCA	GTG	TAC	AGC	AGC	CTA	AAA	AAG	GGC	AAG	AAA	TGC	AGC	AAG	ACC	AAG
136	Pro	Val	Tyr	Ser	Ser	Leu	Lys	Lys	Gly	Lys	Lys	Cys	Ser	Lys	Thr	Lys
137								275		280					285	
139	AAA	TCC	CCA	GAA	CCA	GTC	AGA	TTT	ACT	TAT	GCA	GGA	TGC	TCC	AGT	GTC
140	Lys	Ser	Pro	Glu	Pro	Val	Arg	Phe	Thr	Tyr	Ala	Gly	Cys	Ser	Ser	Val
141								290		295					300	
143	AAG	AAA	TAC	CGG	CCC	AAA	TAC	TGC	GGC	TCC	TGC	GTA	GAT	GGC	CGG	TGC
144	Lys	Lys	Tyr	Arg	Pro	Lys	Tyr	Cys	Gly	Ser	Cys	Val	Asp	Gly	Arg	Cys
145	305							310			315				320	
147	TGC	ACA	CCT	CTG	CAG	ACC	AGA	ACT	GTG	AAG	ATG	CGG	TTC	CGA	TGC	GAA
148	Cys	Thr	Pro	Leu	Gln	Thr	Arg	Thr	Val	Lys	Met	Arg	Phe	Arg	Cys	Glu
149								325		330					335	
151	GAT	GGA	GAG	ATG	TTT	TCC	AAG	AAT	GTC	ATG	ATG	ATC	CAG	TCC	TGC	AAA
152	Asp	Gly	Glu	Met	Phe	Ser	Lys	Asn	Val	Met	Met	Ile	Gln	Ser	Cys	Lys
153								340		345					350	
155	TGT	AAC	TAC	AAC	TGC	CCG	CAT	CCC	AAC	GAG	GCA	TCG	TTC	CGA	CTG	TAC
156	Cys	Asn	Tyr	Asn	Cys	Pro	His	Pro	Asn	Glu	Ala	Ser	Phe	Arg	Leu	Tyr
157								355		360					365	
159	AGC	CTA	TTC	AAT	GAC	ATC	CAC	AAG	TTC	AGG	GAC	TAAGTGCCTC	CAGGGTTCCT			1336
160	Ser	Leu	Phe	Asn	Asp	Ile	His	Lys	Phe	Arg	Asp					
161								370		375						
163	AGTGTGGGCT	GGACAGAGGA	GAAGCGCAAG	CATCATGGAG	ACGTGGGTGG	CGGGAGGATG										1396
165	AATGGTGCCT	TGCTCATTCT	TGAGTAGCAT	TAGGGTATTT	CAAAACTGCC	AAGGGGCTGA										1456
167	TGTGGACGGA	CAGCAGCGCA	GCCG													1480
169	(2)	INFORMATION FOR SEQ ID NO: 2:														
171	(i)	SEQUENCE CHARACTERISTICS:														
172	(A)	LENGTH: 379 amino acids														
173	(B)	TYPE: amino acid														
174	(D)	TOPOLOGY: linear														
176	(ii)	MOLECULE TYPE: protein														
178	(ix)	FEATURE:														
179	(A)	NAME/KEY: misc_feature														
180	(D)	OTHER INFORMATION: "Mouse Cyr61 amino acid sequence"														
182	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 2:														
184	Met	Ser	Ser	Ser	Thr	Phe	Arg	Thr	Leu	Ala	Val	Ala	Val	Thr	Leu	Leu
185	1				5				10					15		
187	His	Leu	Thr	Arg	Leu	Ala	Leu	Ser	Thr	Cys	Pro	Ala	Ala	Cys	His	Cys
188								20		25				30		
190	Pro	Leu	Glu	Ala	Pro	Lys	Cys	Ala	Pro	Gly	Val	Gly	Leu	Val	Arg	Asp
191								35		40				45		
193	Gly	Cys	Gly	Cys	Cys	Lys	Val	Cys	Ala	Lys	Gln	Leu	Asn	Glu	Asp	Cys
194								50		55				60		
196	Ser	Lys	Thr	Gln	Pro	Cys	Asp	His	Thr	Lys	Gly	Leu	Glu	Cys	Asn	Phe
197	65							70						75		80

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199 Gly Ala Ser Ser Thr Ala Leu Lys Gly Ile Cys Arg Ala Gln Ser Glu
 200 85 90 95
 202 Gly Arg Pro Cys Glu Tyr Asn Ser Arg Ile Tyr Gln Asn Gly Glu Ser
 203 100 105 110
 205 Phe Gln Pro Asn Cys Lys His Gln Cys Thr Cys Ile Asp Gly Ala Val
 206 115 120 125
 208 Gly Cys Ile Pro Leu Cys Pro Gln Glu Leu Ser Leu Pro Asn Leu Gly
 209 130 135 140
 211 Cys Pro Asn Pro Arg Leu Val Lys Val Ser Gly Gln Cys Cys Glu Glu
 212 145 150 155 160
 214 Trp Val Cys Asp Glu Asp Ser Ile Lys Asp Ser Leu Asp Asp Gln Asp
 215 165 170 175
 217 Asp Leu Leu Gly Leu Asp Ala Ser Glu Val Glu Leu Thr Arg Asn Asn
 218 180 185 190
 220 Glu Leu Ile Ala Ile Gly Lys Gly Ser Ser Leu Lys Arg Leu Pro Val
 221 195 200 205
 223 Phe Gly Thr Glu Pro Arg Val Leu Phe Asn Pro Leu His Ala His Gly
 224 210 215 220
 226 Gln Lys Cys Ile Val Gln Thr Thr Ser Trp Ser Gln Cys Ser Lys Ser
 227 225 230 235 240
 229 Cys Gly Thr Gly Ile Ser Thr Arg Val Thr Asn Asp Asn Pro Glu Cys
 230 245 250 255
 232 Arg Leu Val Lys Glu Thr Arg Ile Cys Glu Val Arg Pro Cys Gly Gln
 233 260 265 270
 235 Pro Val Tyr Ser Ser Leu Lys Lys Gly Lys Lys Cys Ser Lys Thr Lys
 236 275 280 285
 238 Lys Ser Pro Glu Pro Val Arg Phe Thr Tyr Ala Gly Cys Ser Ser Val
 239 290 295 300
 241 Lys Lys Tyr Arg Pro Lys Tyr Cys Gly Ser Cys Val Asp Gly Arg Cys
 242 305 310 315 320
 244 Cys Thr Pro Leu Gln Thr Arg Thr Val Lys Met Arg Phe Arg Cys Glu
 245 325 330 335
 247 Asp Gly Glu Met Phe Ser Lys Asn Val Met Met Ile Gln Ser Cys Lys
 248 340 345 350
 250 Cys Asn Tyr Asn Cys Pro His Pro Asn Glu Ala Ser Phe Arg Leu Tyr
 251 355 360 365
 253 Ser Leu Phe Asn Asp Ile His Lys Phe Arg Asp
 254 370 375
 256 (2) INFORMATION FOR SEQ ID NO: 3:
 258 (i) SEQUENCE CHARACTERISTICS:
 259 (A) LENGTH: 1418 base pairs
 260 (B) TYPE: nucleic acid
 261 (C) STRANDEDNESS: single
 262 (D) TOPOLOGY: linear
 264 (ii) MOLECULE TYPE: protein
 266 (ix) FEATURE:
 267 (A) NAME/KEY: CDS
 268 (B) LOCATION: 124..1266
 270 (ix) FEATURE:

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271	(A) NAME/KEY: misc_feature						
272	(D) OTHER INFORMATION: "Human cyr61 cDNA coding sequence"						
274	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:						
276	GGGCAGGGCCC	ACCGCGACAC	CGCGCCGCCA	CCCCGACCCC	GCTGCGCACG	GCCTGTCCGC	60
278	TGCACACCAG	CTTGTGGCG	TCTTCGTCGC	CGCGCTCGCC	CCGGGCTACT	CCTGCGCGCC	120
280	ACA ATG AGC TCC CGC ATC GCC AGG GCG CTC	GCC TTA GTC	GTC ACC CTT				168
281	Met Ser Ser Arg Ile Ala Arg Ala Leu Ala	Leu Val Val Thr Leu					
282	1	5	10	15			
284	CTC CAC TTG ACC AGG CTG GCG CTC TCC	ACC TGC CCC GCT	GCC TGC CAC				216
285	Leu His Leu Thr Arg Leu Ala Leu Ser	Thr Cys Pro Ala Ala Cys His					
286	20	25	30				
288	TGC CCC CTG GAG GCG CCC AAG TGC GCG CCG	GGA GTC GGG CTG	GTC CGG				264
289	Cys Pro Leu Glu Ala Pro Lys Cys Ala Pro	Gly Val Gly Leu Val Arg					
290	35	40	45				
292	GAC GGC TGC GGC TGC TGT AAG GTC TGC	GCC AAG CAG CTC AAC GAG GAC					312
293	Asp Gly Cys Gly Cys Lys Val Cys Ala Lys	Gln Leu Asn Glu Asp					
294	50	55	60				
296	TGC AGC AAA ACG CAG CCC TGC GAC CAC	ACC AAG GGG CTG GAA TGC AAC					360
297	Cys Ser Lys Thr Gln Pro Cys Asp His	Thr Lys Gly Leu Glu Cys Asn					
298	65	70	75				
300	TTC GGC GCC AGC TCC ACC GCT CTG AAG	GGG ATC TGC AGA GCT CAG TCA					408
301	Phe Gly Ala Ser Ser Thr Ala Leu Lys	Gly Ile Cys Arg Ala Gln Ser					
302	80	85	90	95			
304	GAG GGC AGA CCC TGT GAA TAT AAC TCC	AGA ATC TAC CAA AAC GGG GAA					456
305	Glu Gly Arg Pro Cys Glu Tyr Asn Ser	Arg Ile Tyr Gln Asn Gly Glu					
306	100	105	110				
308	AGT TTC CAG CCC AAC TGT CAA CAT CAG	TGC ACA TGT ATT GAT GGC GCC					504
309	Ser Phe Gln Pro Asn Cys Gln His	Gln Cys Thr Cys Ile Asp Gly Ala					
310	115	120	125				
312	GTG GGC TGC ATT CCT CTG TGT CCC CAA	GAA CTA TCT CTC CCC AAC TTG					552
313	Val Gly Cys Ile Pro Leu Cys Pro Gln	Glu Leu Ser Leu Pro Asn Leu					
314	130	135	140				
316	GGC TGT CCC AAC CCT CGG CTG GTC AAA	GTT ACC GGG CAG TGC TGC GAG					600
317	Gly Cys Pro Asn Pro Arg Leu Val Lys	Val Thr Gly Gln Cys Cys Glu					
318	145	150	155				
320	GAG TGG GTC TGT GAC GAG GAT AGT ATC	AAG GAC CCC ATG GAG GAC CAG					648
321	Glu Trp Val Cys Asp Glu Asp Ser Ile	Lys Asp Pro Met Glu Asp Gln					
322	160	165	170	175			
324	GAC GGC CTC CTT GGC AAG GAG CTG GGA	TTC GAT GCC TCC GAG GTG GAG					696
325	Asp Gly Leu Leu Gly Lys Glu Leu Gly	Phe Asp Ala Ser Glu Val Glu					
326	180	185	190				
328	TTG ACG AGA AAC AAT GAA TTG ATT GCA	GTT GGA AAA GGC AGA TCA CTG					744
329	Leu Thr Arg Asn Asn Glu Leu Ile Ala	Val Gly Lys Gly Arg Ser Leu					
330	195	200	205				
332	AAG CGG CTC CCT GTT TTT GGA ATG GAG	CCT CGC ATC CTA TAC AAC CCT					792
333	Lys Arg Leu Pro Val Phe Gly Met Glu	Pro Arg Ile Leu Tyr Asn Pro					
334	210	215	220				
336	TTA CAA GGC CAG AAA TGT ATT GTT CAA	ACA ACT TCA TGG TCC CAG TGC					840
337	Gln Gly Gln Lys Cys Ile Val Gln Thr	Ser Trp Ser Gln Cys					

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Input Set : A:\SeqListing05031.3.txt
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L:27 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:28 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:477 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=5
L:651 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=7
L:886 M:246 W: Invalid value of Alpha Sequence Header Field, [TOPOLOGY:], SeqNo=13
L:907 M:246 W: Invalid value of Alpha Sequence Header Field, [TOPOLOGY:], SeqNo=14
L:928 M:246 W: Invalid value of Alpha Sequence Header Field, [TOPOLOGY:], SeqNo=15
L:949 M:246 W: Invalid value of Alpha Sequence Header Field, [TOPOLOGY:], SeqNo=16
L:970 M:246 W: Invalid value of Alpha Sequence Header Field, [TOPOLOGY:], SeqNo=17
L:1000 M:111 C: (47) String data converted to upper case,
L:1017 M:111 C: (47) String data converted to upper case,